
FRAUNHOFER INSTITUTE FOR SOLAR ENERGY SYSTEMS ISE

Net Public Electricity Generation in Germany in the first half year 2020



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Fraunhofer Institute for
Solar Energy Systems ISE

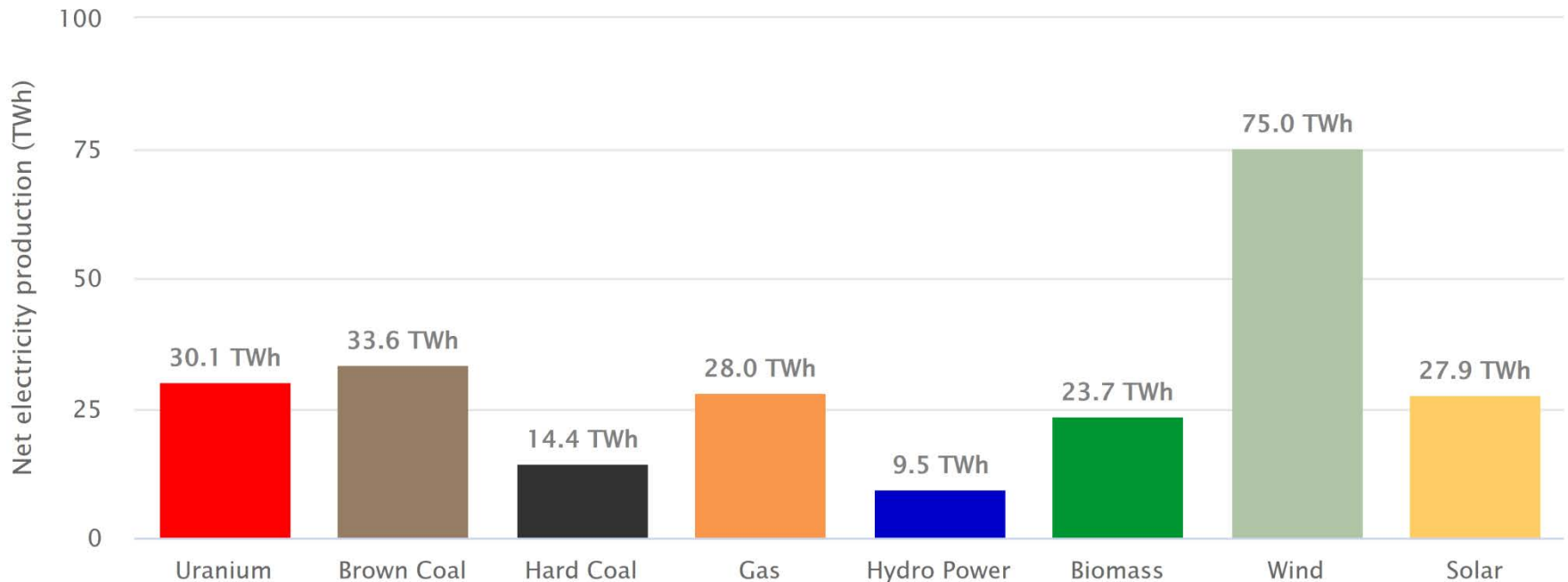
Freiburg, July 1, 2020

www.ise.fraunhofer.de

www.energy-charts.de

Net public electricity generation

First half year 2020



The chart shows the net electricity generation from power plants for the public power supply. Generation from power plants in the manufacturing, mining and quarrying industries, i.e. the self-generation of electricity in industry, is not included.

Graph: B. Burger, Fraunhofer ISE; Data: DESTATIS and Leipzig electricity exchange EEX, energetically corrected values

Absolute change in net public electricity generation

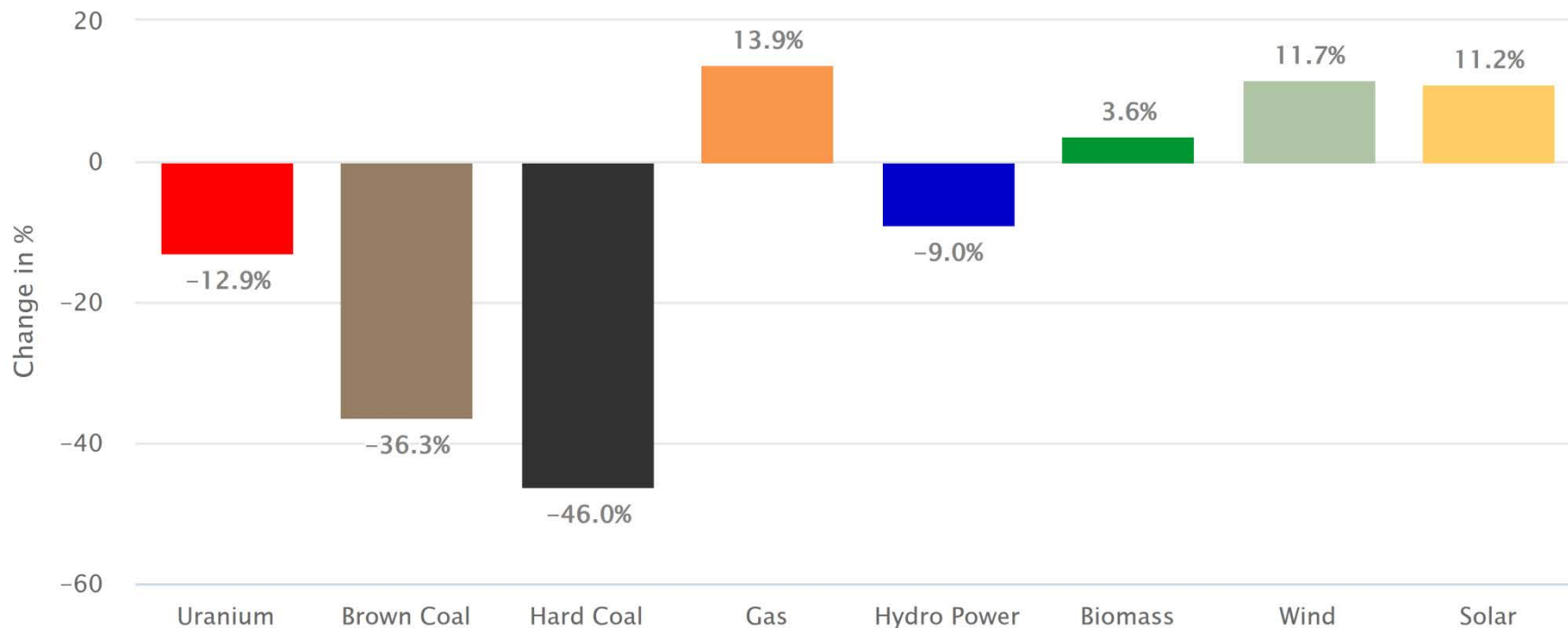
First half year 2020 compared to first half year 2019



Graph: B. Burger, Fraunhofer ISE; Data: DESTATIS and Leipzig electricity exchange EEX, energetically corrected values

Relative change in net public electricity generation

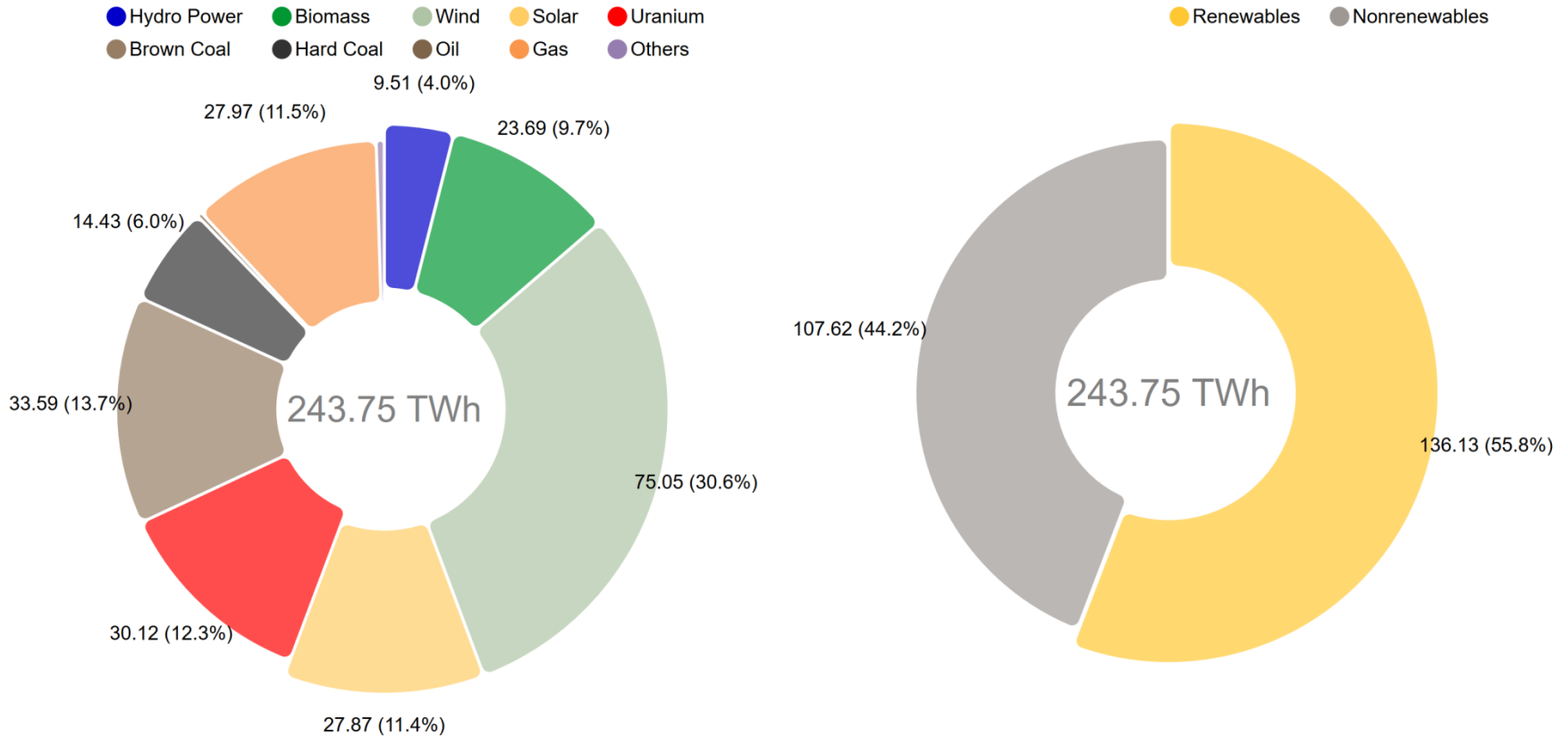
First half year 2020 compared to first half year 2019



Graph: B. Burger, Fraunhofer ISE; Data: DESTATIS and Leipzig electricity exchange EEX, energetically corrected values

Net public electricity generation

First half year 2020

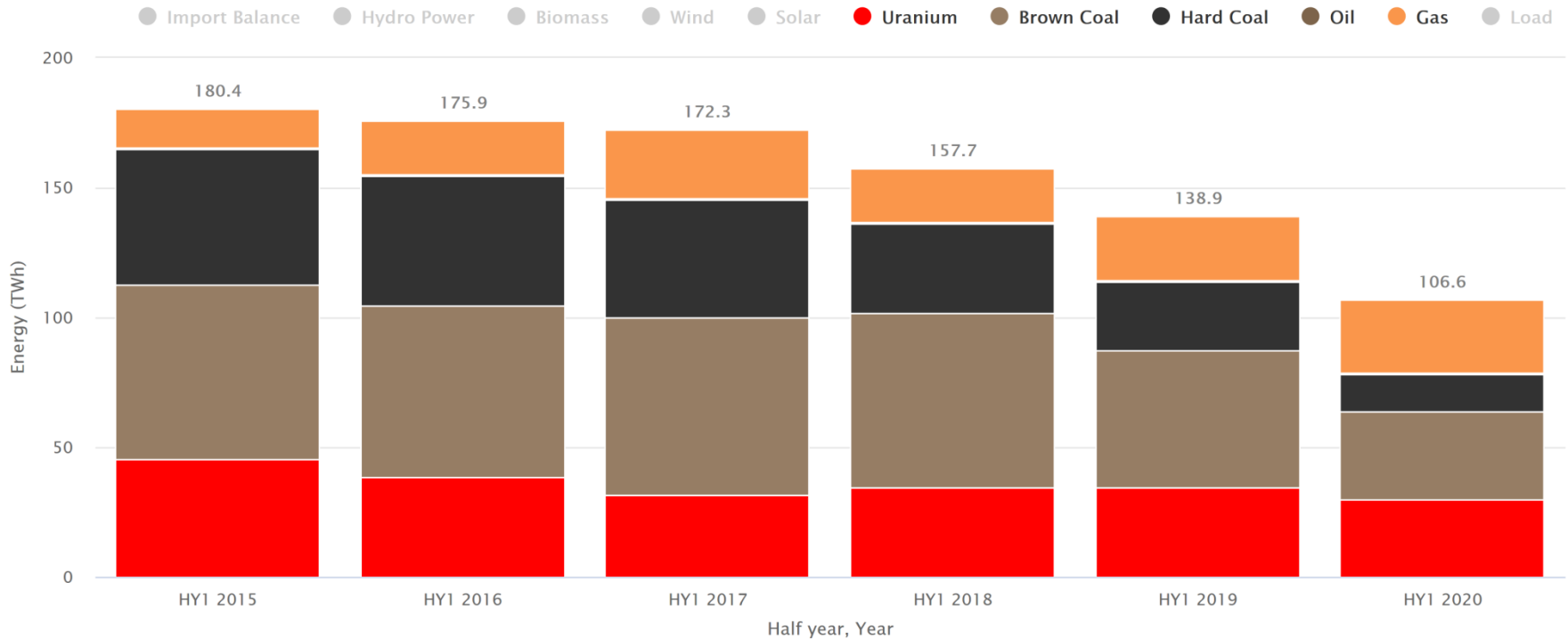


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Graph: B. Burger, Fraunhofer ISE; Source: https://www.energy-charts.de/energy_pie.htm?year=2020

Net public electricity generation

First half year 2015 - 2020, non-renewable sources

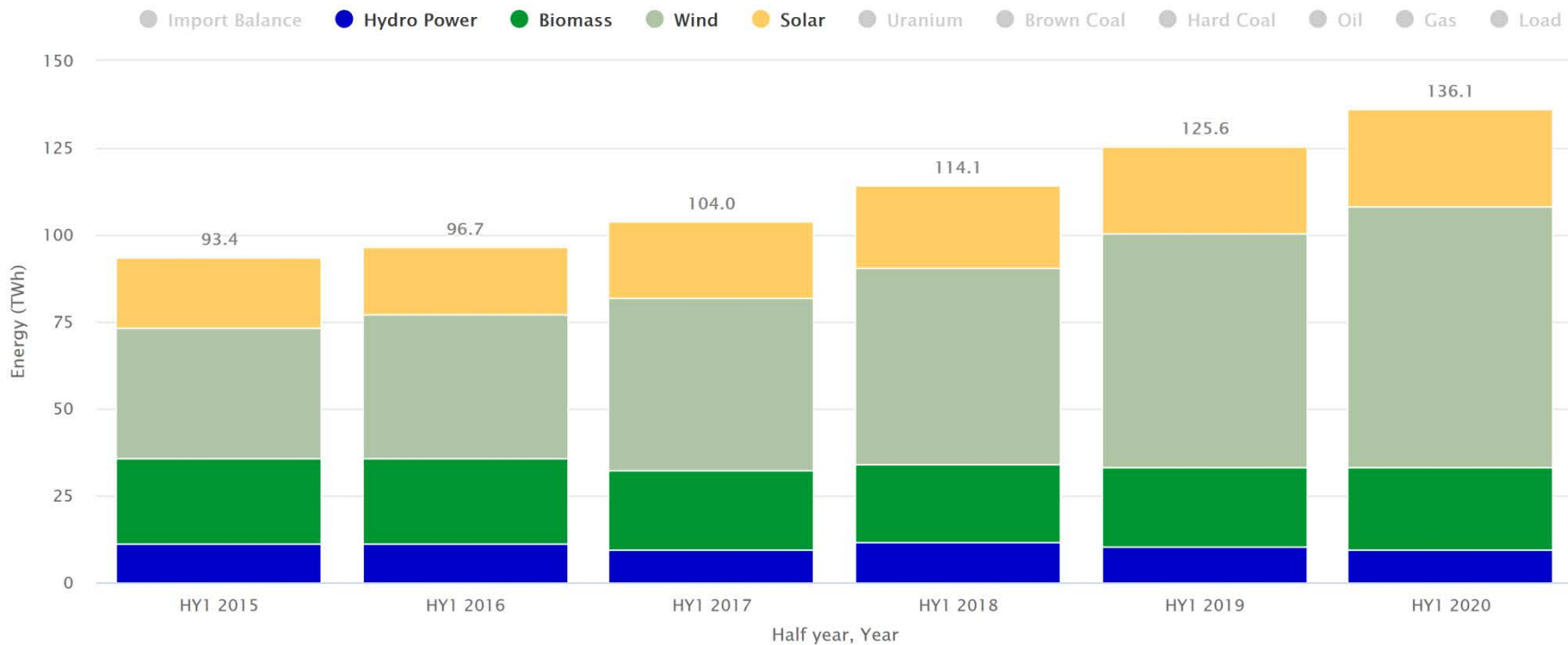


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Graph: B. Burger, Fraunhofer ISE; Source: <https://www.energy-charts.de/energy.htm>

Net public electricity generation

First half year 2015 - 2020, renewable sources

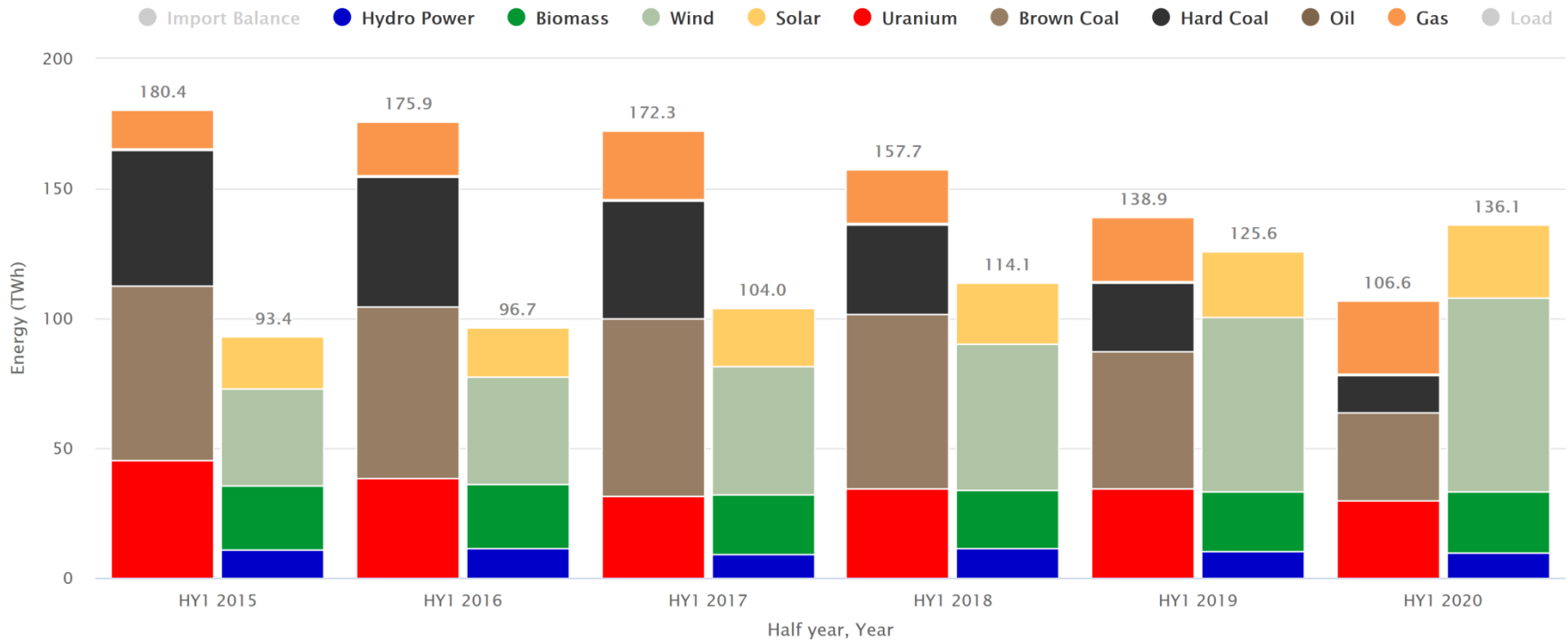


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Net public electricity generation

First half year 2015 - 2020, all sources

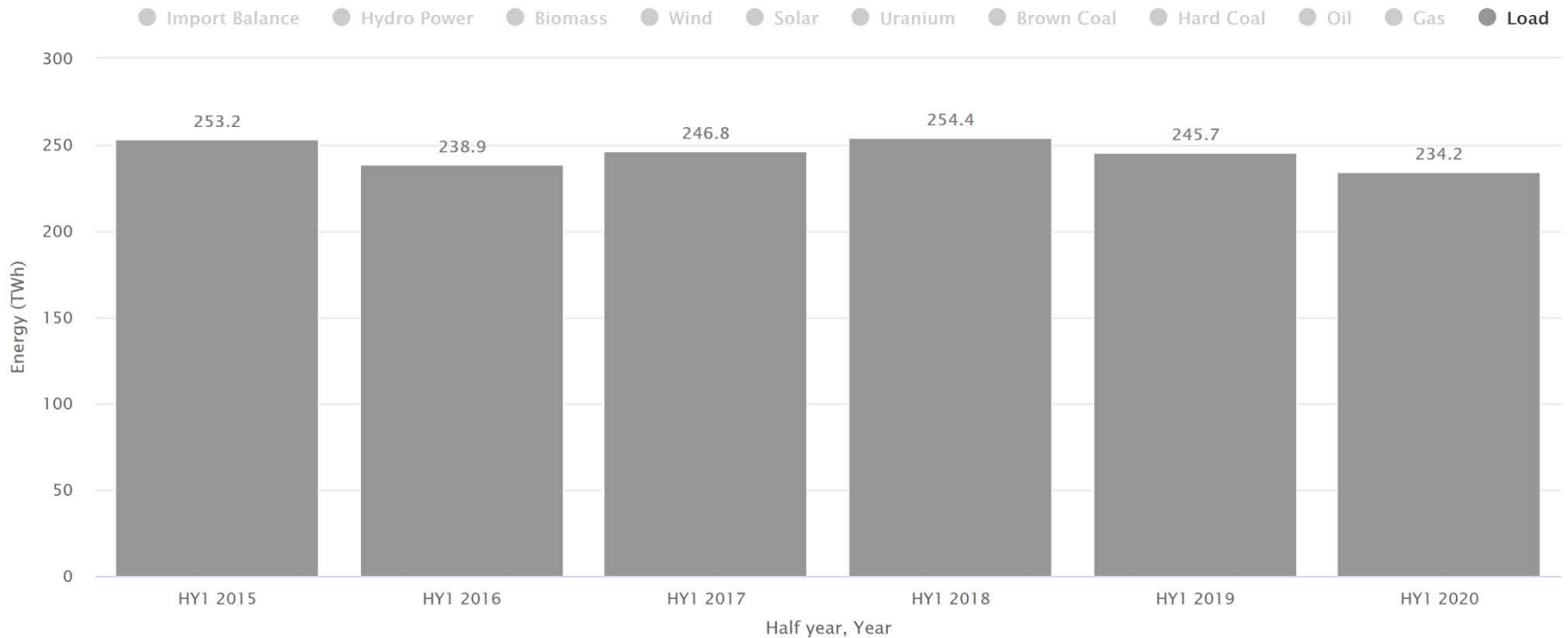


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Load

First half year 2015 - 2020

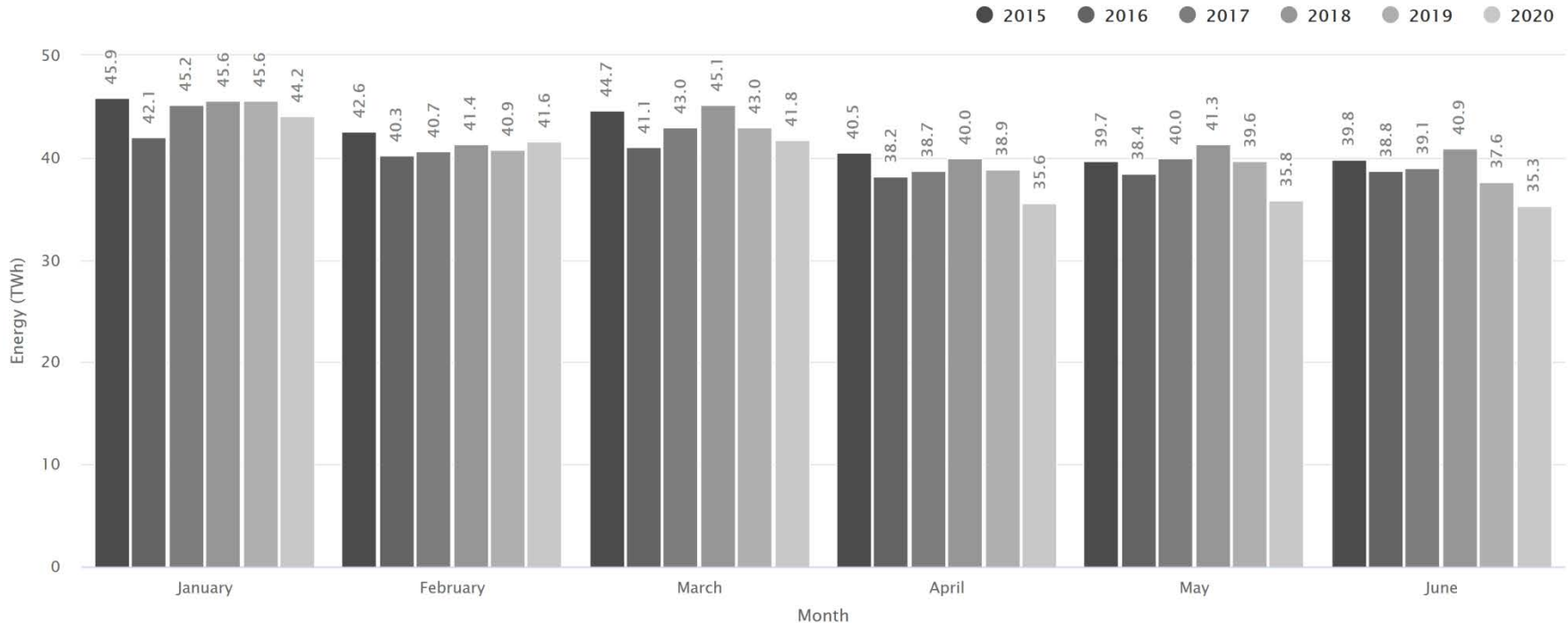


The load includes the electricity consumption and grid losses, but not the pump electricity consumption and the own consumption of conventional power plants.

Graph: B. Burger, Fraunhofer ISE; Source: <https://www.energy-charts.de/energy.htm?source=all-sources>

Load

January to June 2015 to 2020

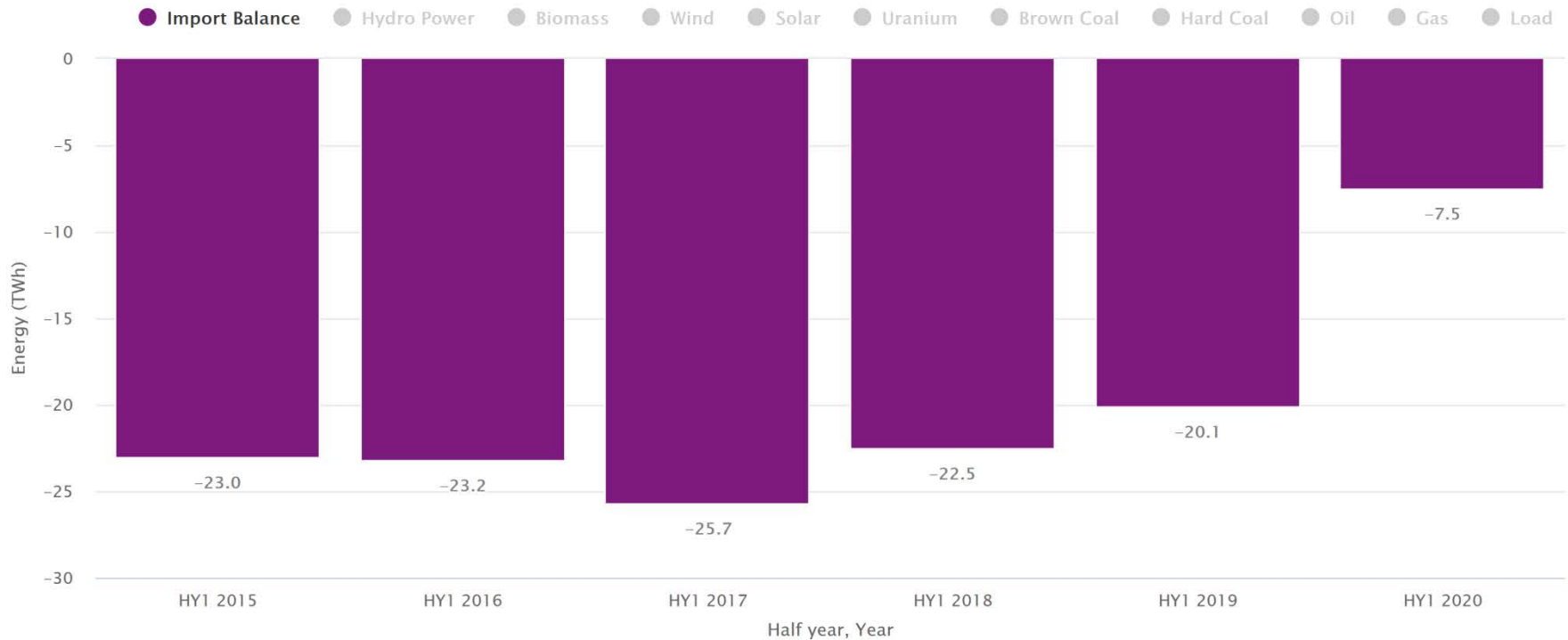


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Electricity exchange balance

First half year 2015 - 2020

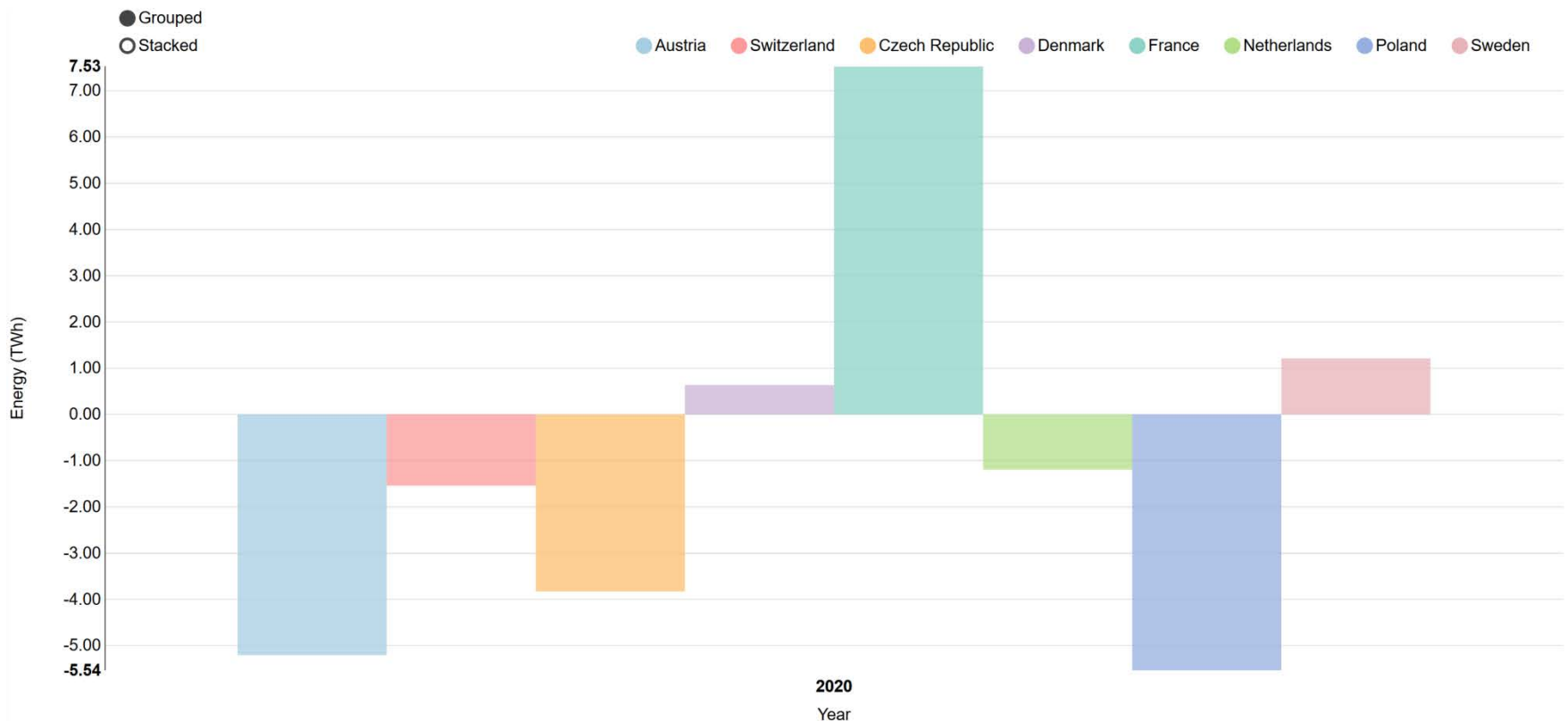


Physical flows. Positive values mean import, negative values mean export.

Graph: B. Burger, Fraunhofer ISE; Source: https://www.energy-charts.de/energy_de.htm?source=conventional

German power import / export

First half year 2020

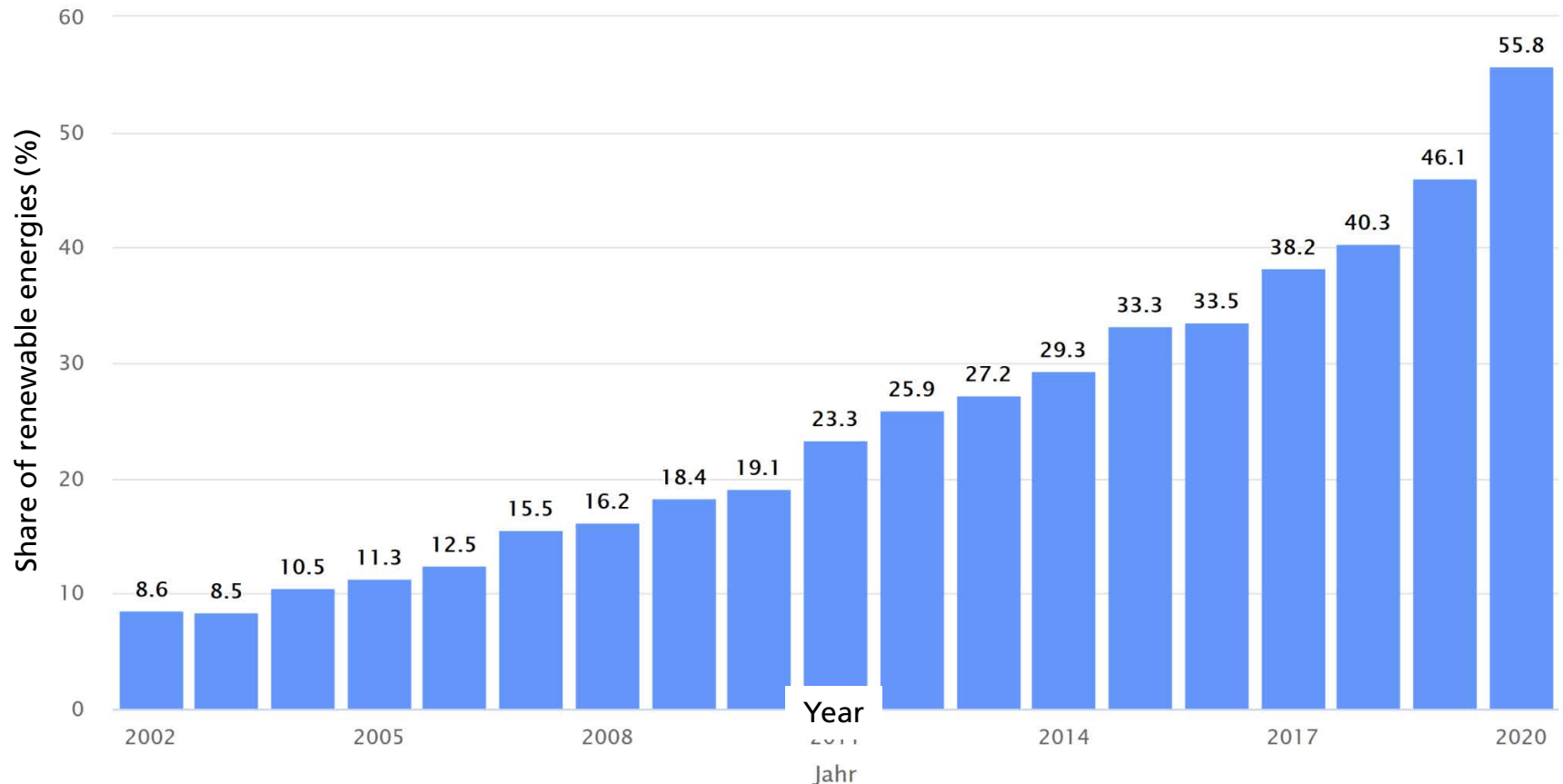


Physical flows. Positive values mean import, negative values mean export.

Graph: B. Burger, Fraunhofer ISE; Source: https://www.energy-charts.de/energy_de.htm?source=import-export

Share of renewables in net public electricity generation

Year 2002 – 2019 and half year 2020

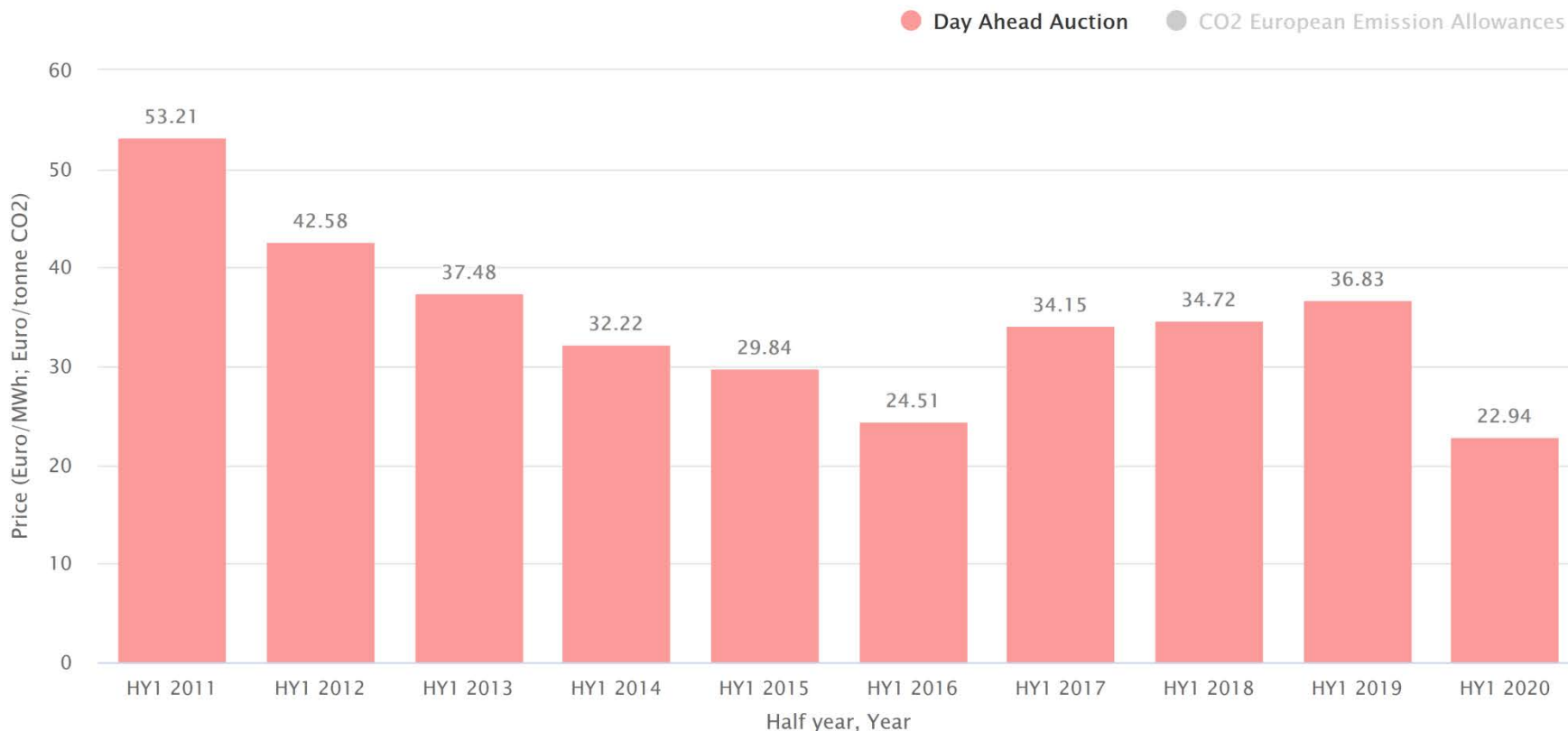


power plants in the manufacturing, mining and quarrying industries, i.e. the self-generation of electricity in industry, is not included.

Graph: B. Burger, Fraunhofer ISE; Source: https://www.energy-charts.de/ren_share.htm

EPEX day ahead spot price

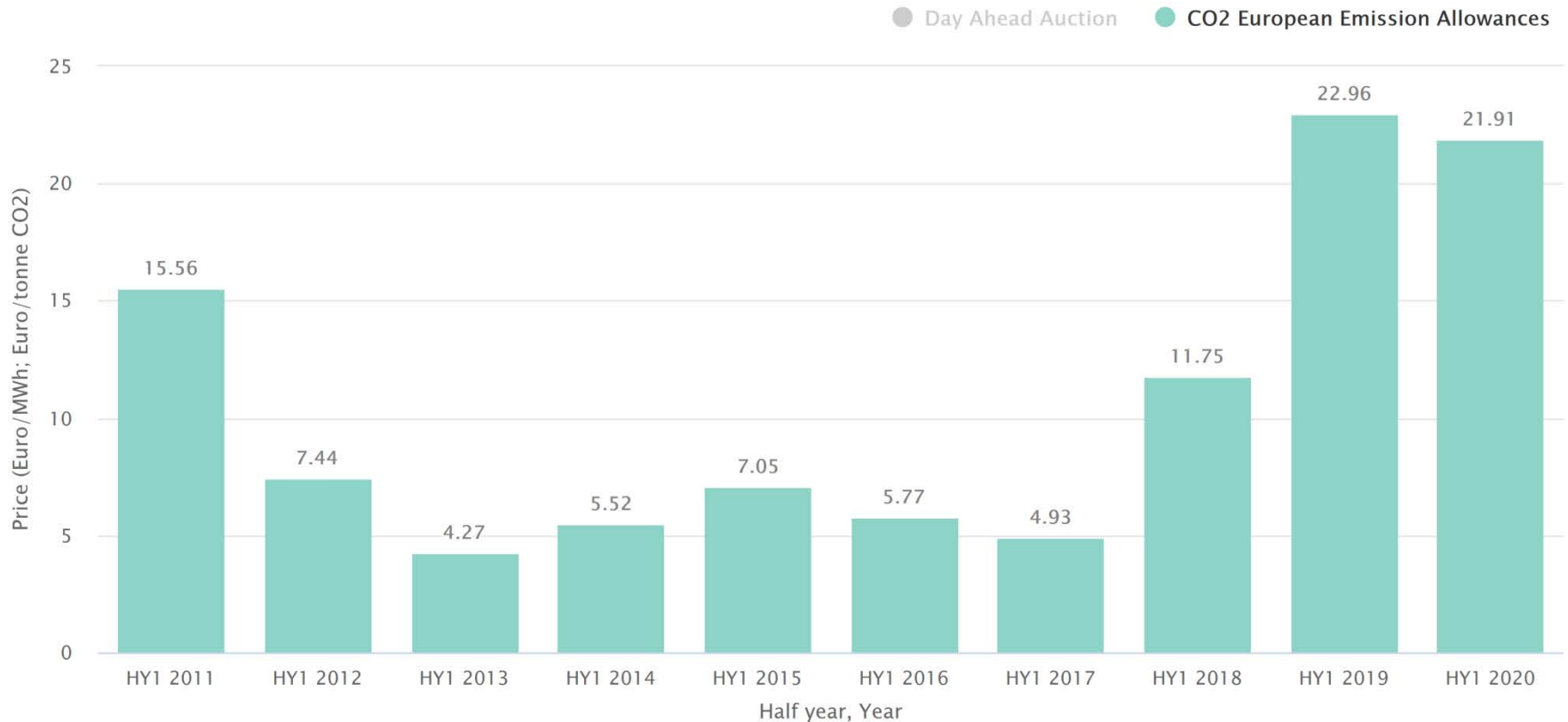
Weighted by volume, nominal prices, not inflation-adjusted, first half year 2011 - 2020



Graph: B. Burger, Fraunhofer ISE; Data: EPEX, Source: http://www.energy-charts.de/price_avg.htm

CO2 European Emission Allowances (EUA)

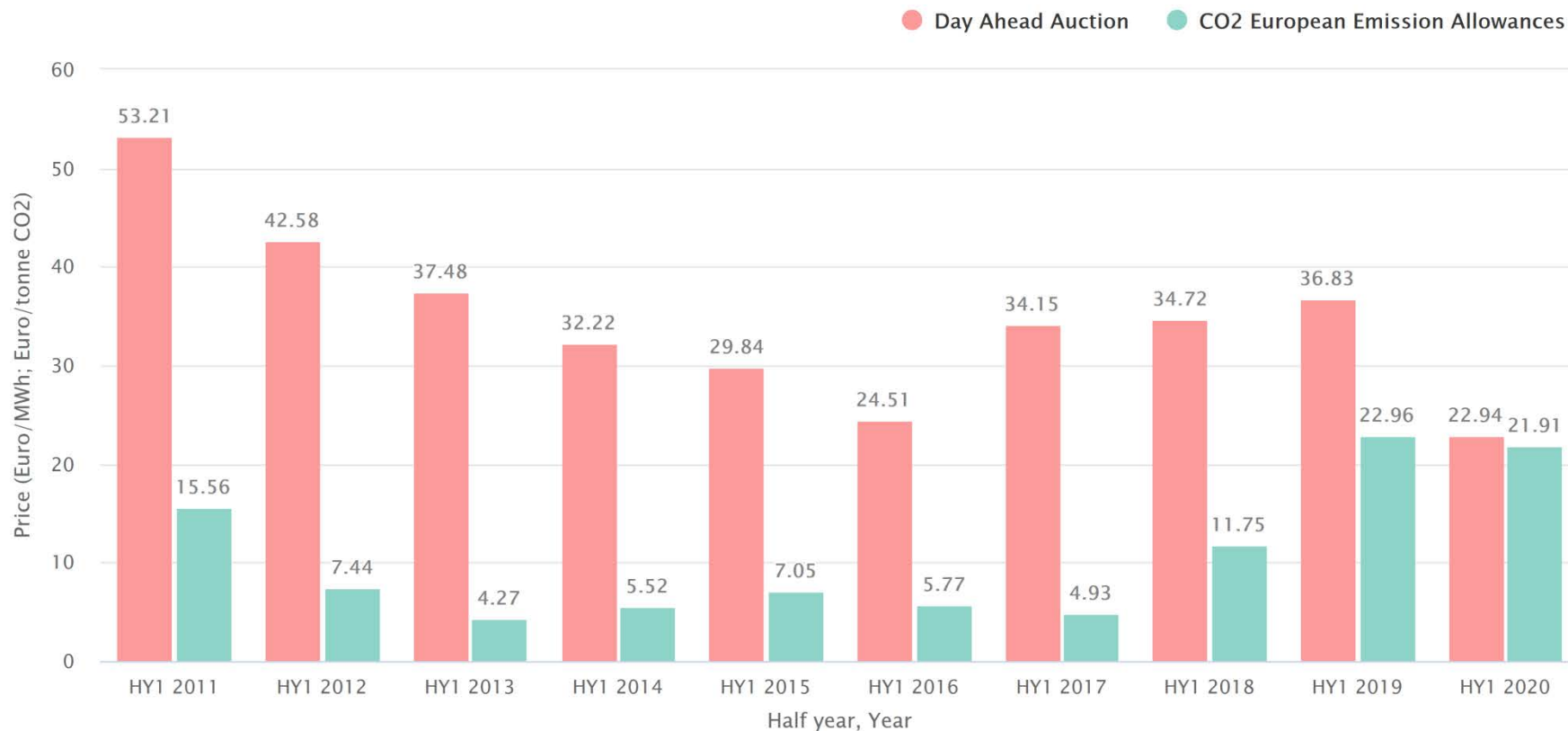
Average price, first half year 2015 - 2020



Graph: B. Burger, Fraunhofer ISE; Data: EEX, Source: http://www.energy-charts.de/price_avg.htm

Day Ahead Spotprice and European Emission Allowances

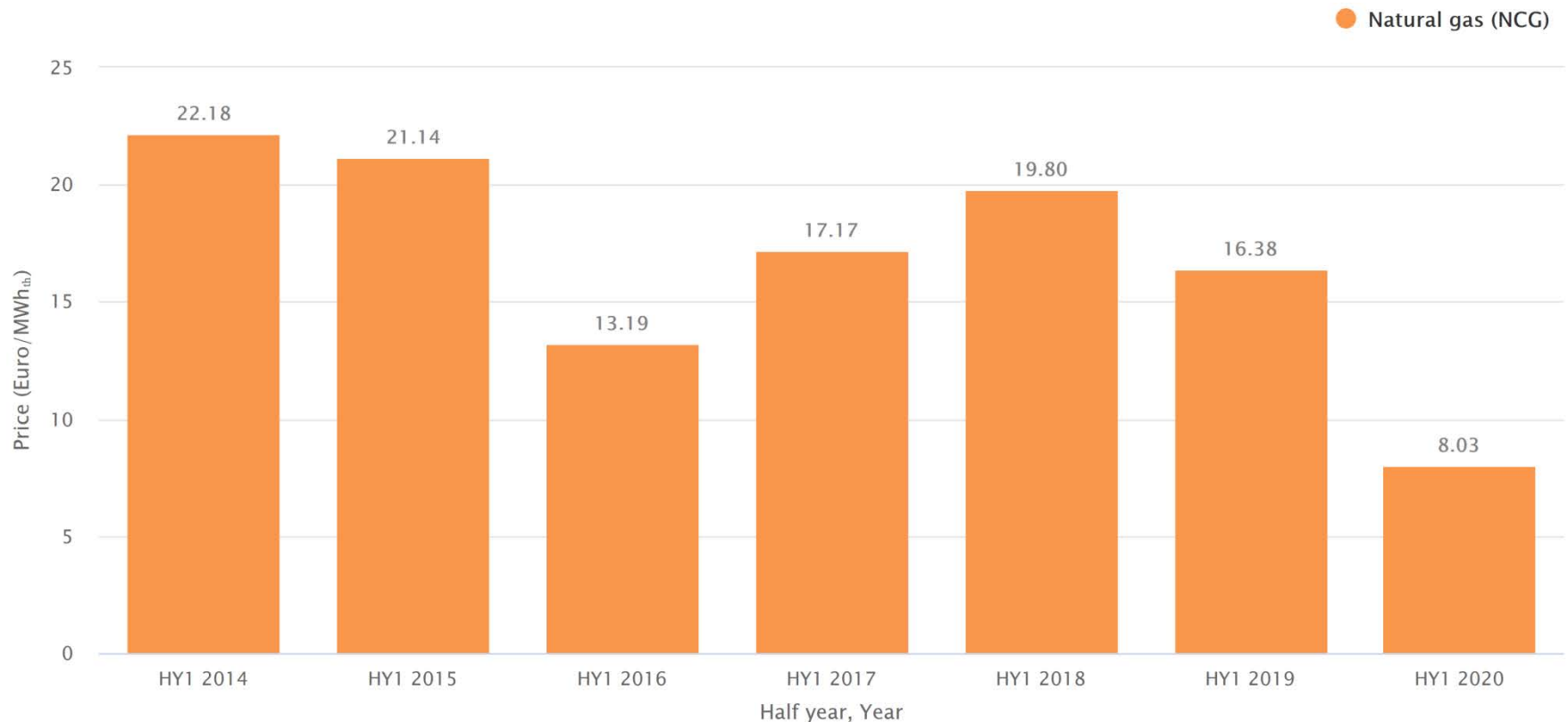
First half year 2015 - 2020



Graph: B. Burger, Fraunhofer ISE; Data: EEX and EPEX, Source: http://www.energy-charts.de/price_avg.htm

Gas price, Net Connect Germany (NCG)

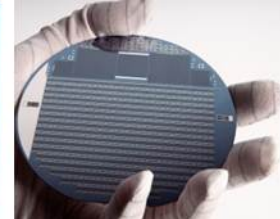
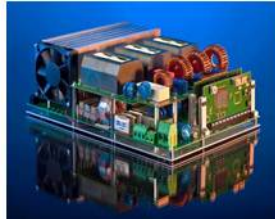
Average price, first half year 2015 - 2020



Graph: B. Burger, Fraunhofer ISE; Data: Quandl

Thank you for your Attention!

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